



Internal Docket No.: TCOM-0002-1

2857

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U.S. Patent Application No. : 09/988,219  
Filing Date : Nov. 19, 2001  
First Named Inventor : John K. Thomas  
Title : Projections in Signal Processing Applications  
Date : June 1, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Fee only

**37 C.F.R. § 1.8 Certificate of mailing or transmission**

This correspondence is being submitted via U.S. first class mail with sufficient postage and addressed to the above referenced addressee by the following:

Gregory T. Fettig

June 1, 2004

**37 C.F.R. § 1.136 Petition**

Applicants petition pursuant to 37 C.F.R. § 1.136 to extend the time period for reply by 1 month. The corresponding fee is submitted herewith.

**AMENDMENT**

Dear Sir:

In response to a Non Final Office Action mailed February 5, 2004, please amend the application as follows:

06/09/2004 WABDELRI 00000078 09988219  
01 FC:2201 86.00 OP  
06/09/2004 WABDELRI 00000078 09988219  
02 FC:2251 55.00 OP

Claims 39 and 40

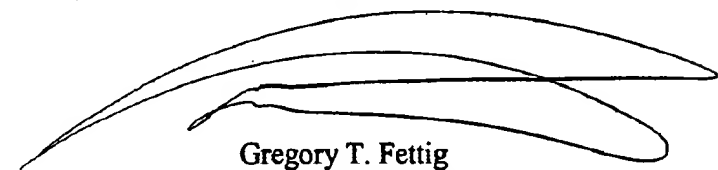
Applicants have added new independent claims 39 and 40 to recite aspects of the invention that vary in scope with respect to claims 1-38. For example, Applicants have claimed features similar to claims 1-38 by essentially reciting the generation of an orthogonal basis matrix from a first matrix, storing values of the orthogonal basis matrix, generating a diagonal matrix from the orthogonal basis matrix, generating scalars from the diagonal matrix and from the orthogonal basis matrix, and applying those scalars to a received signal to project the received signal. Applicants believe claims 39 and 40 are novel and non obvious in view all prior art of record. Accordingly, Applicants believe these claims are in condition for allowance.

**Conclusion**

Applicants have amended claims 1-10, 21, and 32-35 and 38 for editorial clarity and to better protect the invention. Applicants believe these amendments tend to the Examiner's rejections. Applicants have further amended claims these claims, as well as claims 36 and 37, to correct informalities such as typographical errors and antecedence. Applicant respectfully request reconsideration and allowance of claims 1-38.

Applicants have also added new claims 39 and 40. Applicants believe these new claims to be allowable. A check (No. 2128) in the amount of \$141.00 has been enclosed for the above mentioned petition and for the addition of the two new independent claims. Should any issues remain, the Examiner is encouraged to contact the undersigned agent.

Sincerely,



Gregory T. Fettig  
USPTO Reg# 50,843  
TensorComm, Inc.  
1490 W. 121st Avenue, Suite 105  
Westminster, CO 80234  
Phone: 303-920-4797 ext. #8  
Fax: 303-920-4796  
gfettig@tensorcomm.com

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## PATENT APPLICATION FEE DETERMINATION RECORD

Effective October 1, 2001

Application or Docket Number

09988219

### CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	38	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	38 minus 20 =	* 18
INDEPENDENT CLAIMS	8 minus 3 =	* 5
MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/>		

\* If the difference in column 1 is less than zero, enter "0" in column 2

### CLAIMS AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	* 40	Minus ** 38	= 2
Independent	* 10	Minus *** 8	= 2
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

SMALL ENTITY TYPE ☐

RATE	FEE
BASIC FEE	370.00
X\$ 9=	162.-
X42=	910.-
+140=	-
TOTAL	307.00

OR OTHER THAN SMALL ENTITY

RATE	FEE
BASIC FEE	740.00
X\$18=	
X84=	
+280=	
TOTAL	

SMALL ENTITY OR

RATE	ADDITIONAL FEE
X\$ 9=	18.00
X42=	86.00
+140=	
TOTAL ADDIT. FEE	104.00

OR OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus **	=
Independent	*	Minus ***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus **	=
Independent	*	Minus ***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.